

# Mesa County Births and Deaths 2008

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For more information about these tables, please contact the Health Statistics Section of the Colorado Department of Public Health and Environment by telephone at **(303) 692-2160** or by email at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

## Selected birth characteristics: Mesa County residents, 2008

Characteristic	Number	Percent
Total Live Births	2,008	100.0
Age of Mother		
10-17	71	3.5
18-19	157	7.8
20-29	1,229	61.2
30+	551	27.4
Low Weight Births (<2,500 Grams)	147	7.3
Very Low Weight Births (<1,500 Grams)	18	0.9
Prenatal Care Later than 1st Trimester/No Care	402	20.1
No Prenatal Care	36	1.8
Preterm Births (<37 Weeks)	168	8.4
Education of Mother <High School Diploma/GED	430	21.5
Live Births to Unmarried Women	452	22.6
Smoking During Pregnancy	335	16.7

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Selected birth characteristics by age group of mother: Mesa County residents, 2008

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	2,008	100.0	71	100.0	157	100.0	1,229	100.0	551	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	1,580	79.0	49	69.0	108	69.2	976	79.8	447	81.4
White Hispanic	321	16.1	16	22.5	37	23.7	190	15.5	78	14.2
Black	19	1.0	*	*	4	2.6	12	1.0	*	*
Other	79	4.0	5	7.0	7	4.5	45	3.7	22	4.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	147	7.3	8	11.3	11	7.0	85	6.9	43	7.8
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	18	0.9	0	0.0	*	*	12	1.0	5	0.9
<b>Prenatal Care Later than 1st Trimester/No Care</b>	402	20.1	26	37.1	46	29.3	234	19.1	96	17.5
<b>No Prenatal Care</b>	36	1.8	3	4.3	5	3.2	18	1.5	10	1.8
<b>Preterm Births (&lt;37 Weeks)</b>	168	8.4	8	11.3	8	5.1	96	7.8	56	10.2
<b>Education of Mother &lt;High School Diploma/GED</b>	430	21.5	63	88.7	71	45.2	237	19.3	59	10.7
<b>Live Births to Unmarried Women</b>	452	22.5	58	81.7	83	52.9	251	20.4	60	10.9
<b>Smoking During Pregnancy</b>	335	16.7	15	21.1	32	20.4	222	18.1	66	12.0

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Selected birth characteristics by race/ethnicity of mother: Mesa County residents, 2008

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	1,580	100.0	321	100.0	19	100.0	22	100.0	17	100.0
<b>Age of Mother</b>										
<b>10-17</b>	49	3.1	16	5.0	*	*	*	*	*	*
<b>18-19</b>	108	6.8	37	11.5	4	21.1	*	*	*	*
<b>20-29</b>	976	61.8	190	59.2	12	63.2	10	45.5	12	70.6
<b>30+</b>	447	28.3	78	24.3	*	*	10	45.5	*	*
<b>Low Weight Births (&lt;2,500 Grams)</b>	111	7.0	26	8.1	*	*	4	18.2	*	*
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	11	0.7	5	1.6	0	0.0	*	*	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	291	18.5	81	25.2	5	27.8	10	45.5	4	23.5
<b>No Prenatal Care</b>	29	1.8	4	1.2	0	0.0	0	0.0	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	135	8.5	23	7.2	*	*	4	18.2	*	*
<b>Education of Mother &lt;High School Diploma/GED</b>	235	14.9	154	48.3	5	26.3	5	22.7	9	52.9
<b>Live Births to Unmarried Women</b>	329	20.8	89	27.7	8	42.1	4	18.2	7	41.2
<b>Smoking During Pregnancy</b>	294	18.6	30	9.3	3	15.8	*	*	4	23.5

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age or race/ethnicity of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

**Live births and fertility rates with 95% confidence limits by age group of mother: Mesa County residents, 2008**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	2,008	29,381	68.3	65.4	71.2
Teen Age Groups		*			
13-14	*	1,754	*	*	*
15-17	70	2,883	24.3	18.5	30.1
18-19	157	2,455	64.0	54.1	73.8
10-17	71	7,317	9.7	7.4	12.0
10-19	228	9,772	23.3	20.3	26.4
All Age Groups		*			
10-14	*	4,434	*	*	*
15-19	227	5,338	42.5	37.0	48.0
20-24	641	5,631	113.8	105.4	122.2
25-29	588	4,863	120.9	111.6	130.2
30-34	376	4,578	82.1	74.1	90.2
35-39	136	4,566	29.8	24.7	34.8
40-49	39	9,616	4.1	2.7	5.4

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Rates are live births per 1,000 female population in each age group.*

*Population data for 'all ages' are females ages 15-44.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Vital statistics summary: Mesa County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Total Population</b>	112,335	127,903	130,602	135,296	140,417	144,444	135,732
<b>Total Births</b>							
Number	1,467	1,711	1,819	1,880	2,100	2,008	1,904
Birth Rate	13.1	13.4	13.9	13.9	15.0	13.9	14.0
General Fertility Rate	63.3	66.5	69.5	68.9	73.9	68.3	69.5
<b>Age of Mother 10-17</b>							
Number	70	69	88	87	77	71	78
Percent of Total Births	4.8	4.0	4.8	4.6	3.7	3.5	4.1
Fertility Rate	10.7	9.8	12.6	12.1	10.6	9.7	11.0
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	103	146	141	138	173	147	149
Percent	7.0	8.5	7.8	7.3	8.2	7.3	7.8
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	161	210	255	292	389	402	310
Percent	11.0	12.3	14.0	15.6	18.6	20.1	16.3
<b>Births to Unmarried Women</b>							
Number	359	390	424	435	471	452	
Percent	24.5	22.8	23.3	23.1	22.4	22.5	
<b>Mother's Education &lt;12 Years</b>							
Number	284	376	373	415	472	430	
Percent	19.4	22.1	20.6	22.2	22.5	21.4	
<b>Infant Deaths</b>							
Number	10	12	6	9	7	8	8
Rate	6.8	7.0	3.3	4.8	3.3	4.0	4.4
<b>Neonatal Deaths</b>							
Number	7	10	3	7	4	5	6
Rate	4.8	5.8	1.6	3.7	1.9	2.5	3.0
<b>Total Deaths</b>							
Number	1,035	1,162	1,268	1,268	1,253	1,326	1,255
Crude Rate	921.4	908.5	970.9	937.2	892.3	918.0	924.9
Age-Adjusted Rate	814.7	787.8	839.8	824.8	794.3	823.2	814.2
<b>Cardiovascular Disease</b>							
Number	362	378	393	420	395	392	396
Age-Adjusted Rate	280.2	250.9	256.2	268.8	247.8	240.5	252.8
<b>Heart Disease</b>							
Number	291	272	277	315	283	289	287
Age-Adjusted Rate	225.2	180.5	180.3	201.1	177.5	177.1	183.3

(Continued)

**HIGHLIGHTED ROWS:** Denotes data items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Vital statistics summary: Mesa County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Cerebrovascular Disease</b>							
Number	66	63	80	75	79	72	74
Age-Adjusted Rate	51.1	42.1	52.0	48.3	49.4	44.4	47.2
<b>Malignant Neoplasms</b>							
Number	227	256	288	255	293	275	273
Age-Adjusted Rate	177.8	171.8	188.8	164.2	183.8	169.5	175.7
<b>Lung Cancer</b>							
Number	71	94	89	77	86	79	85
Age-Adjusted Rate	55.0	62.2	57.7	48.9	53.8	48.1	54.0
<b>Breast Cancer</b>							
Number	18	22	22	29	15	15	21
Age-Adjusted Rate	14.5	15.3	14.7	18.4	9.2	9.1	13.3
<b>Total Unintentional Injuries</b>							
Number	38	56	69	67	62	61	63
Age-Adjusted Rate	32.8	41.1	49.8	47.5	42.7	40.6	44.3
<b>Motor Vehicle</b>							
Number	18	19	28	20	22	25	23
Age-Adjusted Rate	16.1	13.4	20.7	15.0	14.9	17.2	16.2
<b>Other Unintentional Injuries</b>							
Number	20	37	41	47	40	36	40
Age-Adjusted Rate	16.7	27.6	29.1	32.5	27.8	23.4	28.1
<b>Chronic Lower Respiratory Diseases</b>							
Number	87	98	95	105	101	96	99
Age-Adjusted Rate	66.4	64.6	61.4	66.7	62.4	58.2	62.6
<b>Suicide</b>							
Number	22	29	27	23	40	35	31
Age-Adjusted Rate	18.8	23.2	20.4	16.6	26.6	23.5	22.1
<b>Homicide and Legal Intervention</b>							
Number	3	3	*	6	3	7	4
Age-Adjusted Rate	2.8	2.3	*	4.6	2.4	4.4	3.1
<b>Work-Related Injury</b>							
Number	4	6	4	4	*	6	4
Age-Adjusted Rate	3.7	4.3	2.9	3.2	*	4.0	3.1

**HIGHLIGHTED ROWS:** Denotes data items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths from selected causes by race/ethnicity: Mesa County residents, 2008

Cause of Death	All Races		White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	1,326	100.0	1,254	100.0	58	100.0	*	*	3	100.0	7	100.0
<b>Cardiovascular Disease</b>	392	29.6	376	30.0	15	25.9	*	*	0	0.0	0	0.0
Heart Disease	289	21.8	279	22.2	10	17.2	0	0.0	0	0.0	0	0.0
Cerebrovascular Disease	72	5.4	67	5.3	5	8.6	0	0.0	0	0.0	0	0.0
Atherosclerosis	11	0.8	11	0.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	275	20.7	259	20.7	14	24.1	0	0.0	0	0.0	*	*
Lung Cancer	79	6.0	73	5.8	5	8.6	0	0.0	0	0.0	0	0.0
Breast Cancer	15	1.1	15	1.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	96	7.2	93	7.4	*	*	*	*	0	0.0	*	*
<b>Unintentional Injuries</b>	61	4.6	58	4.6	*	*	0	0.0	0	0.0	*	*
Motor Vehicle	25	1.9	23	1.8	0	0.0	0	0.0	0	0.0	*	*
Other Unintentional Injuries	36	2.7	35	2.8	*	*	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	51	3.8	50	4.0	0	0.0	0	0.0	0	0.0	*	*
<b>Suicide</b>	35	2.6	33	2.6	*	*	0	0.0	*	*	0	0.0
<b>Diabetes Mellitus</b>	25	1.9	20	1.6	4	6.9	0	0.0	*	*	0	0.0
<b>HIV Infection</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	9	0.7	9	0.7	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	45	3.4	43	3.4	*	*	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	20	1.5	20	1.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	7	0.5	6	0.5	*	*	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	16	1.2	16	1.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	4	0.3	3	0.2	*	*	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	3	0.2	0	0.0	3	5.2	0	0.0	0	0.0	0	0.0
<b>All Other</b>	287	21.6	268	21.4	15	25.9	0	0.0	*	*	3	42.9
<b>Injury by Firearm</b>	29	2.2	27	2.2	*	*	0	0.0	*	*	0	0.0
<b>Drug-Induced Deaths</b>	21	1.6	20	1.6	*	*	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	20	1.5	19	1.5	*	*	0	0.0	0	0.0	0	0.0
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	6	0.5	6	0.5	0	0.0	0	0.0	0	0.0	0	0.0

\* indicates one or two events in the category.

Percentages are of total deaths of each race/ethnicity category.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates: Mesa County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	1,326	144,444	9.2
Infant	8	2,008	4.0
Neonatal	5	2,008	2.5
1-4	*	7,833	*
5-9	0	9,322	0.0
10-14	*	9,091	*
15-19	3	10,696	0.3
20-24	9	11,516	0.8
25-29	14	9,897	1.4
30-34	6	9,130	0.7
35-39	14	9,260	1.5
40-44	24	8,871	2.7
45-49	40	10,170	3.9
50-54	50	10,170	4.9
55-59	67	8,946	7.5
60-64	85	6,935	12.3
65-69	93	5,398	17.2
70-74	110	5,285	20.8
75-79	149	4,469	33.3
80-84	221	2,936	75.3
85+	429	2,499	171.7
1-14	4	26,246	0.2
15-24	12	22,212	0.5
25-64	300	73,379	4.1
65+	1,002	20,587	48.7

\* indicates one or two events in the category.

Infant death is death in the first year of life. Neonatal death is death occurring prior to the 28th day of life.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 1,000 population of the age group. Population figures for infant and neonatal groups are live births.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates from selected causes: Mesa County residents, 2008

Cause of Death	<1		1-14		15-24		25-44		45-64		65+	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
All Causes	8	4.0	4	0.2	12	0.5	58	1.6	242	6.7	1,002	48.7
Cardiovascular Disease	0	0.0	0	0.0	*	*	5	0.1	57	1.6	329	16.0
Heart Disease	0	0.0	0	0.0	*	*	4	0.1	48	1.3	236	11.5
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	6	0.2	65	3.2
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	*	*	10	0.5
Malignant Neoplasms	0	0.0	*	*	0	0.0	8	0.2	69	1.9	196	9.5
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	25	0.7	52	2.5
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	11	0.5
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	14	0.4	82	4.0
Unintentional Injuries	0	0.0	0	0.0	7	0.3	14	0.4	18	0.5	22	1.1
Motor Vehicle	0	0.0	0	0.0	5	0.2	10	0.3	7	0.2	3	0.1
Other Unintentional Injuries	0	0.0	0	0.0	*	*	4	0.1	11	0.3	19	0.9
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	*	*	48	2.3
Suicide	0	0.0	0	0.0	*	*	10	0.3	18	0.5	6	0.3
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	3	0.1	21	1.0
HIV Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	44	2.1
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	17	0.8
Homicide and Legal Intervention	*	*	*	*	*	*	0	0.0	4	0.1	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	13	0.6
Congenital Anomalies	*	*	0	0.0	0	0.0	0	0.0	*	*	0	0.0
Perinatal Period Conditions	3	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	*	*	*	*	*	*	19	0.5	41	1.1	222	10.8
Injury by Firearm	0	0.0	*	*	*	*	8	0.2	15	0.4	4	0.2
Drug-Induced Deaths	0	0.0	0	0.0	*	*	9	0.2	7	0.2	3	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	4	0.1	13	0.4	3	0.1
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	*	*	*	*	*	*	0	0.0

\* indicates one or two events in the category.

Infant (<1 year) mortality rates are per 1,000 live births.

Other rates are deaths per 1,000 population of the age group.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

**Deaths, crude death rates and age-adjusted death rates with 95% confidence limits from selected causes:  
Mesa County residents, 2008**

<b>Cause of Death</b>	<b>N</b>	<b>Rate</b>	<b>Age-Adjusted Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Causes</b>	1,326	918.0	823.2	780.4	866.1
<b>Cardiovascular Disease</b>	392	271.4	240.5	217.1	263.9
<b>Heart Disease</b>	289	200.1	177.1	156.9	197.3
<b>Cerebrovascular Disease</b>	72	49.8	44.4	34.2	54.6
<b>Atherosclerosis</b>	11	7.6	6.7	3.2	11.6
<b>Malignant Neoplasms</b>	275	190.4	169.5	149.4	189.5
<b>Lung Cancer</b>	79	54.7	48.1	37.5	58.8
<b>Breast Cancer</b>	15	10.4	9.1	4.5	13.7
<b>Chronic Lower Respiratory Diseases</b>	96	66.5	58.2	46.6	69.8
<b>Unintentional Injuries</b>	61	42.2	40.6	30.3	50.9
<b>Motor Vehicle</b>	25	17.3	17.2	10.4	24.0
<b>Other Unintentional Injuries</b>	36	24.9	23.4	15.7	31.2
<b>Pneumonia and Influenza</b>	51	35.3	31.5	22.9	40.2
<b>Suicide</b>	35	24.2	23.5	15.6	31.4
<b>Diabetes Mellitus</b>	25	17.3	15.4	9.4	21.4
<b>HIV Infection</b>	0	0.0	0.0	0.0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	9	6.2	5.3	2.2	9.7
<b>Alzheimer's Disease</b>	45	31.2	27.6	19.6	35.7
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	20	13.8	12.2	6.8	17.5
<b>Homicide and Legal Intervention</b>	7	4.8	4.4	1.7	8.5
<b>Septicemia</b>	16	11.1	9.7	5.0	14.5
<b>Congenital Anomalies</b>	4	2.8	2.6	0.6	5.9
<b>Perinatal Period Conditions</b>	3	2.1	2.1	0.4	5.1
<b>All Other</b>	287	198.7	180.1	159.4	200.8
<b>Injury by Firearm</b>	29	20.1	19.2	12.1	26.3
<b>Drug-Induced Deaths</b>	21	14.5	15.3	8.7	22.0
<b>Alcohol-Induced Deaths</b>	20	13.8	13.1	7.2	18.9
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	6	4.2	4.0	1.2	8.5

*\* indicates one or two events in the category.*

*Rates are deaths per 100,000 population.*

*Crude death rates are calculated without age-adjustment.*

*Age-adjusted rates are adjusted to the 2000 U.S. standard population using the direct method applied to 10-year age groups.*

*Age-adjusted rates provide a better basis for comparison among different geographical areas or time periods.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Notes Regarding Colorado's Revised Certificate of Live Birth

These tables contain Colorado birth data that were collected using the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 Revision of the U.S. Standard Certificate of Live Birth (revised)<sup>1,2,3</sup>. Colorado's birth registration system used the unrevised certificate for births through calendar year 2006; while births in 2007 through the present were registered using the revised certificate. Among the differences in the revised birth certificate are changes to the following data items:

- Mother's and father's race, captures multiple race identification instead of single race identification
- Mother's and father's education, captures highest degree attained instead of total years of education
- Mother's marital status at time of birth, captures never married, married, widowed, separated, and divorced instead of just married or unmarried
- Cigarette smoking before and during pregnancy, captures levels of smoking in each trimester instead of just smoking any time during pregnancy

And the addition of the following data items:

- Method of delivery includes fetal presentation and trial of labor prior to cesarean delivery
- Pre-pregnancy weight, weight at delivery and height, used to calculate Body Mass Index
- Congenital anomalies, certain conditions have been added or removed
- Fertility therapy
- Did mother get WIC food for herself during this pregnancy
- Infections during pregnancy
- Maternal morbidity
- Breast feeding
- Principal source of payment for the delivery

Data items noted above that were collected using both the unrevised certificate and the revised certificate are not directly comparable. Analyses of birth data for time periods that include both revised and unrevised data should be performed with caution.

To facilitate analyses of births by race, the multiple race identification in revised certificates has been bridged back to a single race using a system developed by the National Center for Health Statistics at the Centers for Disease Control and Prevention<sup>4</sup>. *Please note*, however, that there has been an increase in the number of births reported with "other" or "unknown" maternal and paternal race and/or Hispanic ethnicity beginning in 2007 compared to previous years. This is likely attributable to the change to the revised certificate.

The Health Statistics Section at the Colorado Department of Public Health and Environment is available to assist with analyses of these data, as well as to answer questions one might have regarding the revised certificate and the affected data items. For further information or assistance, please contact the Health Statistics Section at **(303) 692-2160** or by e-mail at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

### References:

- <sup>1</sup> National Center for Health Statistics. 2003 revision of the U.S. Standard Certificate of Live Birth. 2003. Available from: [http://www.cdc.gov/nchs/vital\\_certs\\_rev.htm](http://www.cdc.gov/nchs/vital_certs_rev.htm).
- <sup>2</sup> National Center for Health Statistics. Report of the Panel to Evaluate the U.S. Standard Certificates and Reports. National Center for Health Statistics. 2000. Available from: [http://www.cdc.gov/nchs/data/dvs/panelreport\\_acc.pdf](http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf).
- <sup>3</sup> Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2004. National vital statistics reports; vol 55 no 1. Hyattsville, MD: National Center for Health Statistics. 2006.
- <sup>4</sup> NCHS Procedures for Multiple-Race and Hispanic Origin Data: Collection, Coding, Editing, and Transmittal. Division of Vital Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention, May 7, 2004. Available from: [http://www.cdc.gov/nchs/data/dvs/Multiple\\_race\\_docu\\_5-10-04.pdf](http://www.cdc.gov/nchs/data/dvs/Multiple_race_docu_5-10-04.pdf).